

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT			I. CONTRACT ID CODE	PAGE OF PAGES	
			J	1	14
2. AMENDMENT/MODIFICATION NO. 0004	3. EFFECTIVE DATE 22-Jun-2004	4. REQUISITION/PURCHASE REQ. NO. W68SBV-4100-4504		5. PROJECT NO.(If applicable)	
6. ISSUED BY WALLA WALLA DISTRICT,COE-G4P CONTRACTING DIVISION 201 N THIRD AVENUE WALLA WALLA WA 99362-1876	CODE W912EF	7. ADMINISTERED BY (If other than item 6)		CODE	
		See Item 6			
8. NAME AND ADDRESS OF CONTRACTOR (No., Street, County, State and Zip Code)			X	9A. AMENDMENT OF SOLICITATION NO. W912EF-04-B-0014	
			X	9B. DATED (SEE ITEM 11) 14-May-2004	
				10A. MOD. OF CONTRACT/ORDER NO.	
				10B. DATED (SEE ITEM 13)	
CODE	FACILITY CODE				
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS					
<input checked="" type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offer <input type="checkbox"/> is extended, <input checked="" type="checkbox"/> is not extended.					
<p>Offer must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended by one of the following methods:</p> <p>(a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.</p>					
12. ACCOUNTING AND APPROPRIATION DATA (If required)					
13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.					
A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.					
B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(B).					
C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:					
D. OTHER (Specify type of modification and authority)					
E. IMPORTANT: Contractor <input type="checkbox"/> is not, <input type="checkbox"/> is required to sign this document and return _____ copies to the issuing office.					
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.) JACKSON HOLE STREAM RESTORATION SITE 9, TETON COUNTY, WYOMING It has been determined necessary and in the best interest of the government to revise this solicitation in accordance with the summary of changes. THE CURRENT BID OPENING DATE AND TIME IS JULY 1, 2004 AT 2:00 P.M.					
Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.					
15A. NAME AND TITLE OF SIGNER (Type or print)			16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)		
			TEL: _____ EMAIL: _____		
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA		16C. DATE SIGNED	
_____ (Signature of person authorized to sign)		BY _____ (Signature of Contracting Officer)		22-Jun-2004	

SECTION SF 30 BLOCK 14 CONTINUATION PAGE

SUMMARY OF CHANGES

SECTION 00010 - SOLICITATION CONTRACT FORM

The following have been modified:

BID SCHEDULE

Estimated Cost Range of this Project is between \$ 500,000 and \$ 1,000,000
 SUPPLIES OR SERVICES AND PRICES/COSTS

ITEM	DESCRIPTION	ESTIMATED QUANTITY	U/M	U/P	AMOUNT
0001	Mobilization and Demobilization	1	LS	XXXXXX	\$_____
0002	Rock Quarried and Stockpiled	4,000	TN	_____	\$_____
0003	Rock Grade Control Rock Placement				
0003A	a. First 4,000 Tons	4,000	TN	_____	\$_____
0003B	b. Over 4,000 Tons	3,000	TN	_____	\$_____
0004	Rock Grade Control Excavated	180	HR	_____	\$_____
0005	Rock Grade Control Survey	1	LS	XXXXXX	\$_____
Optional Items					
0006	Mobilization and Demobilization (Optional)	1	LS	XXXXXX	\$_____
Modification of Existing Eco-Fences					
0007	Eco Fence A (Optional)	1	LS	XXXXXX	\$_____
0008	Eco Fence B (Optional)	1	LS	XXXXXX	\$_____
0009	Eco Fence C (Optional)	1	LS	XXXXXX	\$_____
0010	Eco Fence D (Optional)	1	LS	XXXXXX	\$_____
0011	Eco Fence E (Optional)	1	LS	XXXXXX	\$_____
0012	Install Eco Fence F (Optional)	1	LS	XXXXXX	\$_____
0013	Install Eco Fence G (Optional)	1	LS	XXXXXX	\$_____
0014	Fish Barb Type A (Optional)	1	LS	XXXXXX	\$_____
0015	Fish Barbs Type B (Optional)	2	EA	_____	\$_____
0016	Fish Barbs Type C (Optional)	3	EA	_____	\$_____

ITEM	DESCRIPTION	ESTIMATED QUANTITY	U/M	U/P	AMOUNT
0017	Excavated Material Hauled Offsite (Optional)				
0017A	a. First 5,0004,500 Cubic Yards (Optional)	5,0004,500	CY	_____	\$_____
0017B	b. Over 5,0004,500 Cubic Yards (Optional)	3,500	CY	_____	\$_____
0018	Add Height to Rock Grade Control Structure (Optional)				
0018A	a. First 3,000500 Tons (Optional)	3,000500	TN	_____	\$_____
0018B	b. Over 3,000500 Cubic YardsTons (Optional)	1,500	TN	_____	\$_____

SCHEDULE TOTAL \$_____

SECTION 00800 - SPECIAL CONTRACT REQUIREMENTS

The following have been modified:

252.236-7001 CONTRACT DRAWINGS, MAPS, AND SPECIFICATIONS (AUG 2000)

(a) The Government will provide to the Contractor, without charge, one set of contract drawings and specifications, except publications incorporated into the technical provisions by reference, in electronic or paper media as chosen by the Contracting Officer.

(b) The Contractor shall--

- (1) Check all drawings furnished immediately upon receipt;
- (2) Compare all drawings and verify the figures before laying out the work;
- (3) Promptly notify the Contracting Officer of any discrepancies;
- (4) Be responsible for any errors that might have been avoided by complying with this paragraph (b); and
- (5) Reproduce and print contract drawings and specifications as needed.

(c) In general--

- (1) Large-scale drawings shall govern small-scale drawings; and
- (2) The Contractor shall follow figures marked on drawings in preference to scale measurements.

(d) Omissions from the drawings or specifications or the misdescription of details of work that are manifestly necessary to carry out the intent of the drawings and specifications, or that are customarily performed, shall not relieve the Contractor from performing such omitted or misdescribed details of the work. The Contractor shall perform such details as if fully and correctly set forth and described in the drawings and specifications.

(e) The work shall conform to the specifications and the contract drawings identified on the following index of drawings:

DRAWING #	SHEET #	TITLE	REVISION #	DATE
JHER01. DGN	SN-952-7/1 1	LOCATION AND VICINITY MAPS AND INDEX TO DRAWINGS		
JHER02. DGN	SN-952-7/2 2	AERIAL VIEW SITE 9		
JHER03. DGN	SN-952-7/3 3	ECO-FENCE SECTIONS AND DETAILS		
JHER04. DGN	SN-952-7/4 4	ROCK GRADE CONTROL DETAILS	A	06/22/04
JHER05. DGN	SN-952-7/5 5	FISH BARBS - DETAILS		

Contract drawings created on CADD will be available in electronic form for use by the Contractor. No For Information Only drawings are available on CADD. CADD drawings are identified as such by the Computer Aided Design and Drafting symbol near the title block. The Contractor assumes all risks associated in using electronic CADD drawings. The contract drawings shall govern if there are any discrepancies between the electronic copy and the contract drawing. The Contractor shall promptly notify the Contracting Officer of any discrepancies. The Government will not be responsible to correct the electronic CADD drawing. If contract modifications are issued,

the associated electronic CADD drawings will not be available to the Contractor. Electronic copies of CADD drawings are only available in intergraph Microstation format. The Government will provide the files on CD ROM. If the Contractor requires different media, such as floppy disks, the Contractor shall be responsible for all conversions required for their use and associated conversion inaccuracies.

(End of clause)

WAGE DETERMINATION

General Decision Number: WY030005 05/14/2004 WY5

Superseded General Decision Number: WY020005

State: Wyoming

Construction Types: Heavy

Counties: Albany, Big Horn, Campbell, Carbon, Converse, Crook, Fremont, Goshen, Hot Springs, Johnson, Lincoln, Niobrara, Park, Platte, Sheridan, Sublette, Sweetwater, Teton, Uinta, Washakie and Weston Counties in Wyoming.

HEAVY CONSTRUCTION PROJECTS (Industrial and Processing Plants and Refineries).

Modification Number	Publication Date
0	06/13/2003
1	10/17/2003
2	01/23/2004
3	04/30/2004
4	05/14/2004

ASBE0028-002 01/01/2004

Albany, Big Horn, Campbell, Carbon, Converse, Crook, Goshen, Johnson, Niobrara, Platte, Sheridan, Washakie and Weston Counties

	Rates	Fringes
Mechanical Insulator.....	\$ 19.47	6.25

ASBE0069-003 09/18/2003

Fremont, Hot Springs, Lincoln, Park, Sublette, Sweetwater, Teton and Uinta Counties

	Rates	Fringes
Mechanical Insulator.....	\$ 22.59	7.83

BOIL0101-001 01/01/2004

Albany, Big Horn, Campbell, Carbon, Converse, Crook, Goshen, Hot Springs, Johnson, Niobrara, Park, Platte, Sheridan, Washakie and Weston Counties

	Rates	Fringes
Boilermaker.....	\$ 24.37	13.77

BOIL0182-004 10/01/2002

Fremont, Lincoln, Sublette, Sweetwater, Teton and Unita Counties

	Rates	Fringes
Boilermaker.....	\$ 23.49	13.54

CARP1564-001 03/01/2003

	Rates	Fringes
Carpenter (Including Formbuilding and Formsetting).....	\$ 19.50	7.00

* CARP2834-004 05/01/2004

	Rates	Fringes
Millwright.....	\$ 25.79	6.66

ELEC0322-001 03/01/2003

Line Construction

	Rates	Fringes
Cable splicer.....	\$ 31.73	4.75%+7.17
Groundman.....	\$ 17.77	4.75%+5.41
Line Equipment Operator.....	\$ 24.35	4.75%+6.87
Linemen.....	\$ 28.75	4.75%+7.05

ELEC0322-006 06/01/2003

Big Horn, Carbon, Converse, Fremont, Hot Springs, Johnson,
Lincoln, Park, Sheridan, Sublette, Sweetwater, Teton, Unita and
Washakie Counties

	Rates	Fringes
Electrician Projects \$50,000 and Under.....	\$ 16.00	5.70

ELEC0322-007 06/01/2003

Carbon, Converse and Fremont Counties

	Rates	Fringes
Electrician		
Projects Over \$50,000.....	\$ 19.07	7.60

ELEC0322-009 06/01/2003

Big Horn, Hot Springs, Johnson, Lincoln, Park, Sheridan,
Sublette, Sweetwater, Teton, Unita and Washakie Counties

	Rates	Fringes
Electrician		
Projects Over \$50,000.....	\$ 18.82	7.59

ELEC0415-004 09/02/2003

Albany, Campbell, Crook, Goshen, Niobrara, Platte and Weston
Counties

	Rates	Fringes
Electrician		
Projects \$100,000 and Over.....	\$ 21.83	4.6%+8.51

ELEC0415-005 09/02/2003

Albany, Campbell, Crook, Goshen, Niobrara, Platte and Weston
Counties

	Rates	Fringes
Electrician		
Projects Under \$100,000.....	\$ 19.68	4.6%+8.51

ENGI0800-001 06/15/2003

	Rates	Fringes
Operator-Crane		
Group 1.....	\$ 20.74	9.55
Group 2.....	\$ 20.93	9.55
Group 3.....	\$ 21.36	9.55
Group 4.....	\$ 22.40	9.55
Group 5.....	\$ 22.79	9.55

CRANE OPERATOR CLASSIFICATIONS:

Group 1: Hydrocrane under 15 ton

Group 2: Hydrocrane 15 ton MRC and over to 30 ton

Group 3: Crawler or truck type under 25 ton; whirley, gantry, stiffleg or overhead traveling under 25 ton

Group 4: Crawler or truck type 25 ton and up to and including 50 ton; whirley, gantry, stiffleg and overhead traveling 25 ton and up to and including 50 ton; hydrocrane 30 to 50 ton

Group 5: Crawler or truck type and hydrocrane over 50 ton; whirley, gantry or overhead traveling and tower crane 50 ton and over, MRC

IRON0454-001 02/01/2003

	Rates	Fringes
Ironworker, reinforcing and structural.....	\$ 16.00	8.09

LAB01271-001 01/01/2002

	Rates	Fringes
Laborer		
Group 1.....	\$ 14.80	5.80
Group 2.....	\$ 14.95	5.80
Tunnel and Underground Work.....	\$ 14.95	5.80

LABORER CLASSIFICATIONS

Group 1: All Work Pertaining to Pre-Watering, Pre-Irrigation and Pre-Wetting; Axeman and Hand Faller; Bin Wall Installer; Bituminous Curd Builder; Burner (Cutting Torch); Car and Truck Loader; Carpenter Tender; Chuck Tender; Concrete Saw; Concrete Worker (Wet or Dry)(Curing and Drying); Creosote Material Handler (Corrosive Enamel or It's Equal); Dumpman; Erector and Installer (Includes the Installation of All Fences, Right of Way, Median Fences, Now Fences, etc., Guard Rails, Section Rails, Reference Posts, Guideposts, Signs and Right of Way Markers); Firewatch; Form Setter (Paving); Formstripper; General Laborer; Hand Operated Vibrator Roller; Jackhammer and Pavement Breaker; Landscaper; Material Handler (Lumber, Rods, Cement, Concrete); Manhole Watch; Mechanical Form Cleaner; Mortar Man on Stone Riprap; Nozzleman (Air and Water); Operator of Pneumatic, Electric, Gas Tamper and Similar Mechanical Tools; Pipe setter (Corrugated, Culvert Pipe Multi-Plate, Sectional Plate and Similar Type); Pipe Wrapper; Power Saw Operator (Cleaning); Power Type Concrete (Push and Ride); Riprap Man; Rodman; Sandblaster Pot Tender; Shoring and Lagging Open Ditch; Signalman, Grade, Concrete, etc.; Sissorman or Hopperman; Stake Jumper for Equipment; Tar and Asphalt Pot Tender; Vibrator-Concrete; Flagman, Heat

Tender and Pilot Car Operator; and Wrecking and Demolition Crew

Group 2: Semi-Skilled Laborers; Asphalt Raker and Tamper; Gunnite and Sandblaster Nozzleman; High Scaler (Using Air Tool From Bos' N Chair, Swing State Lift Belt, or Block and Tackle shall receive \$.20 per hour more than the classified rate); Sewer Pipe Installer (Non-Metallic, Caulker, Collarman, Jointer, Mortarman, Rigger, Jacker); Powderman and Blaster; Wagon Drill, Air Track; Diamond and Other Drills for Blasting Power or Grouting; Forklift Operator (Masonry Work); Hodcarriers; Scaffold Builders; Mason Tenders; Terrazo Tenders; and Tile Setter Tenders

Tunnel and Underground Work Classifications:

Drill Doctors; Finishers; Form Setters and Movers; Jackhammer Man; Machine Man; Miners (Drillers); Piling and/or Caisson Workers; Rebar Man; Spaders Steelman; Timberman; Tuggers; Chuck Tender; Nipper; Topman or Top Tender; Brakeman; Vibrator; Bull Gang Laborer; Mucker; Shifter

Shafter Raises and Stone Work shall be \$.20 per hour above tunnel and underground rates

* PLAS0577-002 05/01/2004

	Rates	Fringes
Cement Mason/Concrete Finisher.....	\$ 22.31	6.90

PLUM0192-003 12/31/2002

	Rates	Fringes
Pipefitter.....	\$ 20.70	11.25

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.
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Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (ii)).

In the listing above, the "SU" designation means that rates listed under the identifier do not reflect collectively bargained wage and fringe benefit rates. Other designations indicate unions whose rates have been determined to be

prevailing.

WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

- * an existing published wage determination
- * a survey underlying a wage determination
- * a Wage and Hour Division letter setting forth a position on a wage determination matter
- * a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an

interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board

U.S. Department of Labor

200 Constitution Avenue, N.W.

Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

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END OF GENERAL DECISION

TECHNICAL SPECIFICATIONS

The following sections are replaced:

Section 01010, Supplementary Requirements
Section 01270, Measurement and Payment
Section 02300, Earthwork

PLANS

The following plan is replaced:

Drawing # SN-952-7/4, Rock Grade Control Details

(End of Summary of Changes)

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DIVISION 01 - GENERAL REQUIREMENTS

SECTION 01010

SUPPLEMENTARY REQUIREMENTS

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- 1.19 Cultural Resources

PART 2 PRODUCTS (Not Used)

PART 3 EXECUTION (Not Used)

-- End of Section Table of Contents --

SECTION 01010

SUPPLEMENTARY REQUIREMENTS

PART 1 GENERAL

The work covered by this section of the specifications consists of work common to more than one section of these TECHNICAL SPECIFICATIONS.

1.1 REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to in the text by the basic designation only.

CORPS OF ENGINEERS (COE)

COE EM 385-1-1 (2003) Safety and Health Requirements Manual

Website for the safety manual is www.hq.usace.army.mil/soh/em385/385TOC.htm

1.2 SUBMITTALS

Government approval is required for submittals with a "G" designation; submittals not having a "G" designation are for information only. When used, a designation following the "G" designation identifies the office that will review the submittal for the Government. The following shall be submitted in accordance with Section 01330 SUBMITTAL PROCEDURES:

SD-01 Preconstruction Submittals

Accident Prevention Plan; G,CD

Equipment List

Contractor's Schedule

DUST CONTROL

1.3 EQUIPMENT LIST

The Contractor shall furnish a complete list of all equipment to be used on the project, in duplicate, within 15 days after date of receipt of notice to proceed. The Contractor shall submit a revised list in the event of change of equipment. Lists shall include rented equipment as well as lease-purchase or sale-leaseback equipment. The initial list and the revised lists shall indicate dates equipment is assigned to or removed from the project and adequate identification or description of each item of equipment including manufacturer's name (abbreviated), model number, manufacturer's serial number, year of manufacture, and Contractor's assigned serial or record number.

1.4 TESTING OF EQUIPMENT

Before any machinery or mechanized equipment is put to use on the job, it shall be inspected and tested by a qualified person and determined to be in safe operating condition in the presence of the representative of the Contracting Officer. Cranes or derricks shall be tested by the Contractor or a qualified testing agency in accordance with COE EM 385-1-1. Equipment shall be large enough to safely handle proposed picks or tasks without exceeding the crane rating established by these tests.

1.5 SANITATION FACILITIES

The Contractor shall furnish portable sanitation facilities on a trailer or flatbed truck in accordance with COE EM 385-1-1. Sanitation facilities shall be moved on the site at the beginning of each work day, and moved off the site at the end of each work day. Sanitation facilities shall be considered incidental to the performance of the work in this contract, and no separate payment will be made.

1.6 SAFETY

1.6.1 Accident Prevention

In accordance with Contract Clause ACCIDENT PREVENTION the Contractor shall provide and maintain work environments and procedures which will safeguard the public, Government personnel, Contractor personnel, property, materials, supplies, and equipment exposed to Contractor operations and activities.

1.6.1.1 Safety Requirements

The Contractor shall comply with the requirements of COE EM 385-1-1.

1.6.1.2 Corrective Action by the Contractor

Whenever the Contracting Officer detects any noncompliance with these requirements or any condition that poses a serious or imminent danger to the health or safety of any personnel, the Contracting Officer will notify the Contractor and request immediate initiation of corrective action. Lack of notice from the Contracting Officer does not relieve the Contractor from compliance requirements and responsibility. After receipt of notice from the Contracting Officer, the Contractor shall immediately take corrective action. Such notice, when delivered to the Contractor at the site of the work, shall be deemed sufficient for the purpose of notification. If the Contractor fails or refuses to comply promptly, the Contracting Officer may issue an order stopping all or part of the work until satisfactory corrective action has been taken. No part of the time lost due to such stop orders shall be made the subject of claim for extension of time or for additional costs or damages by the Contractor.

1.6.2 Accident Prevention Plan

Before commencing any work on site, the Contractor shall submit an Accident Prevention Plan for the Contracting Officer's review and acceptance. Paragraph 01.A.07 and Appendix A of COE EM 385-1-1 reflect requirements and guidelines for preparing accident prevention plans.

1.6.3 Hazard Analysis

Prior to beginning each major phase of work, an activity Hazard Analysis shall be prepared by the Contractor in accordance with paragraph 01.A.09 and Figure 1-1 of COE EM 385-1-1 and provided to the Government Inspector.

1.6.4 Subcontractors

Compliance with the accident prevention and safety requirements by subcontractors will be the responsibility of the Contractor.

1.7 FIRE CONTROL

Each piece of internal combustion engine driven equipment used at the work site shall be equipped with a fire extinguisher in accordance with recommendation NFPA as appropriate. The minimum approved rating of extinguishers shall not be less than 5-B:C.

1.8 WORK SCHEDULES

1.8.1 Contractor's Schedule

At the prework meeting, the Contractor shall furnish a schedule of working hours and days of the week for contract work. The Contractor shall furnish notification of any change of schedule of regular work hours, overtime work hours, and shifts of work crews and personnel at the site. This notification shall be provided a minimum of 48 hours prior to any schedule change to allow suitable scheduling of Government personnel and inspection.

Exception to this requirement may be allowed in case of schedule change due to emergency conditions.

1.9 CONTRACTOR WORK AREA

Work and storage areas will be available for the Contractor as directed by the COR. The Government will not be responsible for providing security for stored equipment, supplies, and materials. The Contractor shall provide all necessary security. Staging areas will be located outside the leveed section, and fuel and lubricant storage and dispensing activities shall be restricted to the staging areas.

1.10 REGULAR CLEANUP AND DEBRIS DISPOSAL

Debris resulting from the work, such as packing cases, scrap lumber, and other debris shall be collected and removed from the project site daily and disposed of in a legal manner. All costs for removing debris shall be incidental to the work, and no separate payment will be made therefore.

1.11 PROTECTION AND RESTORATION OF EXISTING FACILITIES.

The Contractor shall take precautions to prevent damage to existing facilities while performing work under this contract. Upon completion of the work, all the existing facilities not included as a portion of the work shall be left in a condition better than or equal to the condition existing at time of contract award. Costs for maintenance, repair and restoration of any facilities shall be considered as incidental to and included in the bidding schedule prices.

1.12 ROCK STOCKPILE

Contractor shall stockpile the quarried rock at the quarry site, rock may be stockpiled on the jobsite after 7 September, 2004.

1.13 ACCESS JOBSITE

The access road is open to the public for non-vehicle access. Vehicle access is controlled by a locked gate. The contractor is responsible for all access control during working hours, as well as public safety. Contractor and equipment access to the work site is available through the right-of-way provided by the Sponsor, Teton County, and is subject to the conditions of that right of way. The Contractor shall use the access route that will result in the least impact to vegetation, waters, and wetlands. Contact Don Barney, Road and Levee Superintendent, at (307) 733-7190, for instructions and keys.

1.14 REPAIR OF ACCESS ROAD

The Contractor shall return the access road to pre-work conditions when the job is completed, by regrading, and then resealing the access road with ~~Calcium~~Magnesium Chloride. Pre-work conditions shall to be detailed by on site inspection during the pre-work conference. Prework and postwork inspections will be conducted with the Teton County Road and Levee Department. All repairs shall be completed before final payment. This shall be considered incidental to the job and no additional pay will be made for this work.

1.14.1 Dust Inhibitor Application to Access and Levee Roads

Magnesium chloride (MgCl) shall be applied on 6 inches of uncompacted gravel at a rate of 33 tons of MgCl per mile of 12 foot wide road. The MgCl shall be mixed with water as recommended by the manufacturer. ~~Calcium chloride ASTM D 98 shall be applied at the rate recommended by the manufacturer.~~ Surface preparation and protection shall be as recommended by the manufacturer. The ground shall not be compacted prior to application. ~~Calcium~~Magnesium chloride shall not be applied if rain is forecast or appears likely.

1.15 DAILY CLEANUP OF SITE ENTRANCE

Entrance off State Route 22 and the access road to the job site shall be kept free of all materials dropped from Contractor vehicles. Contractor shall broom sweep the asphalt entrance of all debris generated at the end of each shift. All debris shall be disposed of in a legal manner. Contractor shall also wash off all dirt and mud that cannot be broom swept from the asphalt on State Route 22 when the job is completed.

1.16 CONTRACTOR'S CRANES

Contractor's cranes and equipment furnished for this work shall conform to all applicable OSHA Requirements and COE EM 385-1-1.

1.17 TRAFFIC CONTROL AND PUBLIC ACCESS

Existing public roads and access roads shall be kept open to vehicle traffic at all times. The Contractor shall conduct his work in such a manner as will obstruct and inconvenience traffic as little as possible. When necessary for the Contractor to operate on or cross existing highways

or roads, the Contractor shall furnish signs lights, and /or other necessary safe gaurds to safely control and direct the flow of traffic. The Contractor shall obtain any and all required permits for such operations from the appropriate private or public authority at no additional cost to the Government.

1.18 DUST CONTROL

The Contractor shall be responsible during dust generating activities to prevent dust from spreading. The Contractor shall submit a written dust control plan for approval at the prework meeting

1.19 Cultural Resources

If cultural materials are encountered during excavations, an assessment of the find and a determination may be made to move or abandon the work in the immediate area. If human remains are discovered, they shall not be disturbed, but protected in place. All work shall stop in the area of the discovery and the Contractor shall immediately notify the Corps of Engineers COR.

PART 2 PRODUCTS (Not Used)

PART 3 EXECUTION (Not Used)

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SECTION 01270

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SECTION 01270

MEASUREMENT AND PAYMENT

PART 1 GENERAL

1.1 General

In each instance, the contract price for an item shall constitute full compensation for furnishing all plant, labor, equipment, and materials, and for performing all operations required to complete the work included in the item as herein specified, or as otherwise approved.

1.2 SUBMITTALS

Government approval is required for submittals with a "G" designation; submittals not having a "G" designation are for information only. When used, a designation following the "G" designation identifies the office that will review the submittal for the Government. The following shall be submitted in accordance with Section 01330 SUBMITTAL PROCEDURES:

SD-03 Product Data

certified weight certificates; G,CD

1.3 MOBILIZATION AND DEMOBILIZATION

Measurement and payment for mobilization and demobilization will be in accordance with CLAUSE: PAYMENT FOR MOBILIZATION AND DEMOBILIZATION of Section 00800. This item will be measured for payment as a complete pay item (LS) under Bid Item No. 0001, "Mobilization and demobilization," which price and payment will be full compensation for mobilizing and demobilizing all plant and equipment required for performance of the work, as specified and approved.

1.4 ROCK QUARRIED AND STOCKPILED

Rock quarried and stockpiled will be measured for payment as the number of tons (TN) stockpiled. Payment will be made at the unit price for Item No. 0002 "Rock Quarried and Stockpiled," which price and payment shall be full compensation for all work required for quarrying, grading and stockpiling, complete, as specified and approved. Preliminary quantities for payment purposes will be made based on a conversion of the number of cubic yards contained in the stockpile to tons (TN) using a conversion factor of ~~1.167~~ 0.91 ~~CDY~~ per TN. Preliminary payments shall not exceed 80% of the estimated quantity of 4,000 tons. A final payment adjustment will be made based on the weighed quantity of specified and approved rock delivered. If the stockpiled volume generates more than 4,000 TN of specified rock, the contractor will receive payment for the excess amount under Item No. 0003B if the excess rock is necessary to construct the rock grade control. If the excess rock is not needed to construct the rock grade control, no further payment will be made.

1.5 ROCK GRADE CONTROL ROCK PLACEMENT

1.5.1 First 4000 Tons

First 4000 tons of rock placed will be measured for payment as the number of tons (TN) placed up to 4000 tons. Payment will be made at the unit price for Item No. 0003 A, "First 4000 Tons," which price and payment shall be full compensation for all work required to place and transport up to ~~6000~~ 4000 tons of rock from the stockpile, complete, as specified and approved.

1.5.2 Over 4000 Tons

Over 4000 tons of rock placed will be measured for payment as the number of tons (TN) placed over "First 4000 Tons" Item No. 0003 A. Payment will be made at the unit price for Item No. 0003 B, "Over 4000 Tons," which price and payment shall be full compensation for all work required for quarrying, grading, transporting and placing the rock over the first 4000 tons, complete, as specified and approved.

1.5.2.1 Measurement

Rock will be measured for payment by the ton (2,000 pounds) by weighing each truckload to the nearest 0.1 ton, and the final quantity of the whole sum will be rounded to the nearest whole ton. The rock will be measured for payment by being weighed on approved scales before being placed in the work. Quarry weights will not be accepted. Scales shall be of sufficient length to permit simultaneous weighing all axle loads and shall be inspected, tested and sealed as directed to assure accuracy with 0.5 percent throughout the range of the scales. The scales, located at the site of the work, shall be certified as to accuracy by an acceptable scales company representative prior to weighing any riprap. Scales will be checked and certified before rock hauling and rechecked and recertified whenever a variance is suspected. The Contractor shall furnish the scales.

If commercial scales are readily available in close proximity 10 miles of site of work, the Contracting Officer may approve the use of the scales. The rock shall be weighed in the presence of the Government representative. The Contracting Officer may elect to accept certified weight certificates furnished by a public weighmaster in lieu of scale weights at the jobsite.

1.6 ROCK GRADE CONTROL EXCAVATION

Rock Grade Control Excavation will be measured for payment as the number of Hours (HR) performed to excavate the rock grade control. Payment will be made at the unit price for Item No. 0004, "ROCK GRADE CONTROL EXCAVATION," which price and payment shall be full compensation for furnishing and operating the backhoe, including operator, fuel, lubricants and all appurtenant items, and all work required for excavation of the rock grade control, complete, as specified and approved.

1.6.1 Measurement

Rock grade control excavation will be measured for payment as the actual number of hours and fractions thereof which the specified backhoe and operator is satisfactory operated, as directed by the Contracting Officer. Time required for purposes other than actual excavating such as mobilizing, refueling, lubricating, maintenance, and idle time will not be included in the measurement. Fractions of an hour will be measured to the nearest quarter hour. Measurement of work time shall begin when the backhoe and

operator begins excavation of the rock grade control and end when backhoe is not excavating.

1.7 ROCK GRADE CONTROL SURVEY

Survey of the Rock Grade Control will be measured for payment as a complete pay item (LS). Payment will be made at the lump sum price for Item No. 0005, "ROCK GRADE CONTROL SURVEY," which price and payment shall be full compensation for all work required for surveying the site after construction is completed, or when directed in writing by the Contracting Officer. This work at a minimum shall cover the following: all documentations of survey, drawings of topo in approved electronic format see section 01330 and section 02300 for details, complete, as specified and approved.

1.8 MOBILIZATION AND DEMOBILIZATION (OPTIONAL)

Measurement and payment for mobilization and demobilization will be in accordance with CLAUSE: PAYMENT FOR MOBILIZATION AND DEMOBILIZATION of Section 00800. This item will be measured for payment as a complete pay item (LS) under Bid Item No. 0006, "Mobilization and demobilization (optional)," which price and payment will be full compensation for mobilizing and demobilizing all plant and equipment required for performance of the authorized optional work. This bid item will be paid only if one or more of the optional items are exercised in the second year of the contract, as specified and approved.

1.9 MODIFICATION OF EXISTING ECO-FENCES (OPTIONAL)

Repair of existing eco fences bid items 0007 thry 0011. Only the eco fences directed in writing by the Contracting Officer shall be repaired. Payment will be made at the lump sum price for each item "MODIFICATION OF EXISTING ECO-FENCES (OPTIONAL)," which price and payment shall be full compensation for all work required for repairing each existing eco fences at the site, complete, as specified and approved.

1.9.1 Eco Fence A (Optional)

Eco Fence A (Optional) Item No. 0007 will be measured for payment as a complete pay item (LS).

1.9.2 Eco Fence B (Optional)

Eco Fence B (Optional) Item No. 0008 will be measured for payment as a complete pay item (LS).

1.9.3 Eco Fence C (Optional)

Eco Fence C (Optional) Item No. 0009 will be measured for payment as a complete pay item (LS).

1.9.4 Eco Fence D (Optional)

Eco Fence D (Optional) Item No. 0010 will be measured for payment as a complete pay item (LS).

1.9.5 Eco Fence E (Optional)

Eco Fence E (Optional) Item No. 00011 will be measured for payment as a

complete pay item (LS).

1.10 ECO FENCE F (OPTIONAL)

Eco Fence F will be measured for payment as a complete pay item (LS). Payment will be made at the lump sum price for Item No. 0012, "ECO FENCE F (OPTIONAL)," which price and payment shall be full compensation for all work, equipment, and materials required for building the fence, complete, as specified and approved.

1.11 ECO FENCE G (OPTIONAL)

Eco Fence G will be measured for payment as a complete pay item (LS). Payment will be made at the lump sum price for Item No. 0013, "ECO FENCE G (OPTIONAL)," which price and payment shall be full compensation for all work, equipment, and materials required for building the fence, complete, as specified and approved.

1.12 FISH BARB TYPE A (OPTIONAL)

Fish barb type A will be measured for payment as a complete pay item (LS). Payment will be made at the lump sum price for Item No. 0014, "FISH BARB TYPE A (OPTIONAL)," which price and payment shall be full compensation for all work, equipment, and materials required for building the fish barb, complete, as specified and approved.

1.13 FISH BARBS TYPE B (OPTIONAL)

Fish barbs type B will be measured for payment as the number (EA) of type B fish barbs constructed. Payment will be made at the unit price for Item No. 0015, "FISH BARBS TYPE B (OPTIONAL)," which price and payment shall be full compensation for all work, equipment, and materials required for building each type B fish barb, complete, as specified and approved.

1.14 FISH BARBS TYPE C (OPTIONAL)

Fish barbs type C will be measured for payment as the number (EA) of type C fish barbs constructed. Payment will be made at the unit price for Item No. 0016, "FISH BARBS TYPE C (OPTIONAL)," which price and payment shall be full compensation for all work, equipment, and materials required for building each type C fish barb, complete, as specified and approved.

1.15 EXCAVATED MATERIAL HAULED OFFSITE (Optional)

1.15.1 First ~~5000~~4,500 Cubic Yards (Optional)

First ~~5000~~4,500 cubic yards of excavated material hauled offsite will be measured for payment as the number of cubic yards (CY) hauled up to ~~5000~~4,500 cubic yards. Each truck load shall be measured for the total cubic yards of excavated material in the truck. Each load shall be recorded by the Contractor and initialed by the Contracting Officer or Representative. Payment will be made at the unit price for Item No. 0017 A, "First ~~5000~~4,500 Cubic Yards," which price and payment shall be full compensation for all work required to haul and dump offsite up to ~~5000~~4,500 cubic yards of material excavated from the site, complete, as specified and approved.

1.15.2 Over ~~5000~~4,500 Cubic Yards (Optional)

Over ~~5000~~4,500 cubic yards (CY) of material hauled offsite will be measured

for payment as the number of cubic yards (CY) hauled over "First ~~5000~~4,500 cubic yards" Item No. 0017 A. Each truck load shall be measured for the total cubic yards of excavated material in the truck. Each load shall be recorded by the Contractor and initialed by the Contracting Officer or Representative. Payment will be made at the unit price for Item No. 0017 B, "Over ~~5000~~4,500 Cubic Yards," which price and payment shall be full compensation for all work required to haul and dump offsite the material excavated from the site over the first ~~5000~~4,500 cubic yards, complete, as specified and approved.

1.16 ADD HEIGHT TO ROCK GRADE CONTROL STRUCTURE (Optional)

1.16.1 First ~~2000~~500 Tons

First ~~2000~~500 tons of rock placed will be measured for payment as the number of tons (TN) placed up to ~~2000~~500 tons. Payment will be made at the unit price for Item No. 0018 A, "First ~~2000~~500 Tons," which price and payment shall be full compensation for all work required for quarrying, grading, transporting and placing the rock up to the first ~~2000~~500 tons, complete, as specified and approved.

1.16.2 Over ~~2000~~500 Tons

Over ~~2000~~500 tons of rock placed will be measured for payment as the number of tons (TN) placed over "First ~~2000~~500 Tons" Item No. 0018 A. Payment will be made at the unit price for Item No. 0018 B, "Over ~~2000~~500 Tons," which price and payment shall be full compensation for all work required for quarrying, grading, transporting and placing the rock over the first ~~2000~~500 tons, complete, as specified and approved.

1.16.3 Measurement

Rock will be measured the same way as specified in Rock Grade Control Rock Placement Bid Item 0003 above.

PART 2 PRODUCTS (Not Used)

PART 3 EXECUTION (Not Used)

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SECTION 02300

EARTHWORK

PART 1 GENERAL

1.1 REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to in the text by basic designation only.

AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)

ASTM C 127	(2001) Specific Gravity and Absorption of Coarse Aggregate
ASTM C 535	(2001) Resistance to Degradation of Large-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine
ASTM D 2487	(1998) Classification of Soils for Engineering Purposes (Unified Soil Classification System)
ASTM D 2488	(1993e1) Description and Identification of Soils (Visual-Manual Procedure)
ASTM D 5312	(1992; R 1997) Evaluation of Durability of Rock for Erosion Control Under Freezing and Thawing Conditions
ASTM D 5313	(1992; R 1997) Evaluation of Durability of Rock for Erosion Control Under Wetting and Drying Conditions

1.2 DEFINITIONS

1.2.1 Satisfactory Materials

Satisfactory materials shall comprise any materials classified by ASTM D 2487 as GW, GP, GM, GP-GM, GW-GM, GC, GP-GC, GM-GC, SW, SP.

1.2.2 Unsatisfactory Materials

Materials which do not comply with the requirements for satisfactory materials are unsatisfactory. Unsatisfactory materials also include man-made fills; trash; refuse; backfills from previous construction; and material classified as satisfactory which contains root and other organic matter or frozen material. The Contracting Officer shall be notified of any contaminated materials.

1.3 SUBMITTALS

Government approval is required for submittals with a "G" designation; submittals not having a "G" designation are for information only. When used, a designation following the "G" designation identifies the office that will review the submittal for the Government. The following shall be submitted in accordance with Section 01330 SUBMITTAL PROCEDURES:

SD-03 Product Data

Quarry Source; G, SPE.

DIVERSION AND ACCESS; G, EDC.

Rock; G, CD

Test Results

Eco-Fence; G, EDC.

Data showing materials, piles, pile caps, wire rope, fabrics, and wire rope clips meet specifications.

Survey; G, EDC.

1.4 DIVERSION AND ACCESS

The Contractor shall submit a plan detailing the method of diverting flow in the construction area in accordance with SECTION 01355 and a plan to provide access to install the piles and fence materials.

1.5 SURVEY MONUMENTS

Following are survey monuments in the vicinity of the construction work. Horizontal positions are referenced to the Wyoming West state plane coordinate system (NAD27). Vertical positions are referenced to the National Geodetic Vertical Datum adjustment of 1929 (NGVD29). All markers or pipe and washer or brass cap.

Northing	Easting	Elevation	Designation
1032650.64	298023.25	6151.97	R 9RC
1031994.65	299739.99	6155.37	R 9LC
1035588.77	298937.53	6167.25	R11RB
1034376.00	301194.28	6166.77	R11LB
1037423.82	299487.60	6176.11	R12RB
1036374.05	301678.99	6173.42	R12LB

PART 2 PRODUCTS

2.1 MATERIALS

2.1.1 Quarry Source

Contractor shall submit information on the proposed source of quarry material for the rock, random fill, and river cobbles. Information shall include quarry owner, location and the following. As much as possible, materials for construction of eco-fences and fish barbs~~brush fences, root-wads, and kicker/spur dikes~~ should be obtained on-site or from a source

certified as disease free. If a secondary source of these items is required, this source should be approved by the Wyoming Game and Fish Department, Fisheries Section.

2.1.1.1 Rock Source

The Contractor shall designate in writing only one source or one combination of sources from which he proposes to furnish rock. It is the Contractor's responsibility to determine that the rock source or combination of sources selected is capable of providing the quality, quantities, and gradation needed to meet the requirements of these specifications. The Contractor shall make arrangements concerning availability of all sources. The payment of royalties, disposal of wastes, and restoration of the borrow areas or quarry upon completion of the work shall be the Contractor's responsibility. The Corps of Engineers occasionally obtains and uses special mineral permits from the Bridger-Teton National Forest. The permit allows the Corps to obtain riprap rock located on land permitted to the Jackson Hole Ski Corporation. The Contractor may not use, in conjunction with this contract, any rock that is already available to the Corps from the Bridger-Teton National Forest.

2.1.2 Rock

2.1.2.1 Requirements

Rock for end pile protection, rock grade control, and fish barbs shall consist of angular rock. Rounded boulders or subrounded rock fragments as defined by ASTM D 2488 will not be acceptable. Rock shall be reasonably well graded. Neither the breadth nor the thickness of any piece of rock shall be less than one-third of its length. Rock shall be 33 inch minus material with not more than 30 percent less than 16 inches and no materials less than 6 inches. A maximum 5 percent waste (rock less than 6 inches in diameter) by weight will be allowed at the delivery site. Rock shall meet the following test requirements for quality:

TEST	REQUIREMENT
Specific Gravity (ASTM C 127)	minimum 2.5
Absorption (ASTM C 127)	maximum 2.5 percent
Freeze Thaw (ASTM D 5312)	5 percent maximum
	(Sample thickness shall be 2 +/- inches and the surface area of one side of the sample shall be between 144 square inches and 2304 square inches.)
Wetting and Drying (ASTM D 5313)	1 percent maximum loss
	(Surface area of one side of the sample shall be between 144 square inches and 2304 square inches.)
LA Wear (ASTM C 535)	30 percent maximum.

2.1.2.2 Acceptance

After testing requirements have been satisfied and after or while material is being stockpiled the Contracting Officer will perform a visual inspection at the stockpile. If the Contracting Officer, during the inspection, finds that the rock quality or gradation of rock being furnished are not as specified or are questionable, re-sampling and retesting shall be required.

2.1.2.3 Stockpile

See specification section 01010 for stockpiling and surveying information for the rock.

2.1.3 Random Fill

Random fill material used for the fish barbs shall be 12 inch minus with not more than 30 percent less than 3 inches. The average size shall be 6 inches. Material excavated to construct the toe trench for the dike shown in Sections A and B on sheet 5 shall remain on site and used as random fill material.

2.1.4 River Cobbles

River cobbles shall be 6 inches minus with not more than 30 percent less than 1 inch. River cobbles excavated from the river may be used provided not more than 30 percent is less than 1 inch in diameter.

2.2 ECO-FENCE

2.2.1 Piles

Pipe piles shall be 12-inch nominal diameter extra strong steel pipes. The yield strength shall be 50 kips per square inch (ksi). The HPiles shall be HP 12X84. The yield strength shall be 50 ksi. The yield strength shall be in accordance with ASTM A 572, High-Strength Low-Alloy Columbium-Vanadium Structural Steel

2.2.2 Pile Caps

Pile caps shall be 0.25 inch thick steel plates, cut to fit the piles. Caps shall be welded to the top of the piles.

2.2.3 Wire Rope

Wire rope shall be 3/8" diameter 6 X 19Class, extra improved plow steel with independent wire rope core (iwrc).

2.2.4 Fabrics

2.2.4.1 Welded Wire Fabric

Welded wire fabric (cattle panels) shall be 1/4" wire with openings 6" X 8".

2.2.4.2 Small Opening Mesh

Small opening mesh fabric shall be wire, minimum 16 gauge, with openings no greater than 2 inches.

2.2.5 Wire Rope Clips

Wire rope clips shall be 3/8" steel with galvanized clips to resist rust and corrosion and forged steel saddles.

PART 3 EXECUTION

3.1 GENERAL

Areas shall be cleared of all vegetation and debris before placement of rock. All random fill and river cobbles shall be compacted by tamping with the bucket of the backhoe immediately after placement of materials.

3.2 ECO-FENCE

Eco-fences shall be built in the approximate locations and to the dimensions shown on the drawings. Exact locations will be as directed by the COR. Water may be flowing through the construction area. A berm or other means of diverting the flow may be required. Some of the piles may need to be placed in areas where a significant amount of erosion has occurred and standing water may remain, even after diversion of flow. In order to obtain equipment access in these locations, some materials may need to be moved to create a work platform. Materials shall not be hauled in from off-site. Materials may be moved around the fences. Any materials moved to create the work platform shall be moved to construct the fences and graded level, after fence construction, to create a smooth surface. Woody debris in the construction area shall be set aside and repositioned on the upstream side of the fences after the fences have been constructed. The welded wire fabric, small opening mesh, and wire rope, shall be placed as stated in the plans and specifications. This may require removal of some fill material after the piles have been driven.

3.2.1 Excavation

Excavation limits shall be as indicated on the drawings. Excavated material may be reserved for fill over the wire fabrics.

3.2.2 Piles

The 12 piles closest to the island shall be 12-inch steel pipes. The first 10 piles shall be 20 feet long. The remaining 2 piles shall be 40 feet long. The 4 piles located farthest in the river shall be HP 12X84. The H-piles shall be 40 feet long and shall be placed so the flange is upstream/downstream and the wire rope is connected through the web. All piles shall be capped. Caps shall have smooth welds without rough edges.

3.2.3 Wire Rope

The wire rope shall be placed at 1-foot intervals beginning 1 foot below the top of the piles and continuing to the full depth of the draped mesh. Wire rope shall wrap around the end piles and be connected to each pile as indicated on the drawings. Wire rope shall be placed on the downstream and underside of the welded wire fabric. Wire rope shall be placed a minimum of 3 feet below grade and shall lay on the excavated surface, as shown on the drawings. The wire rope and top of the piles shall be to the nearest tenth of a foot. The elevations for the wire ropes shall be as indicated below.

Fence Label	Elevation of Top Cable
A	6164.6
B	6164.8
C	6165.7
D	6166.5

Fence Label	Elevation of Top Cable
E	6167.2
F	6167.8
G	6168.4

3.2.4 Fabrics

3.2.4.1 Welded Wire Fabric

Prior to placement of the welded wire fabric (cattle panels) material shall be excavated on the upstream side of the fence to a minimum depth of 3 feet and the width required to drape the fabric as indicated on the drawings . Placement of the cattle panels shall begin 1 foot from the top of the piles. The cattle panels shall extend down and lay horizontal on the excavated surface and wire rope, as shown on the drawings.

3.2.4.2 Small Opening Mesh

Small opening mesh shall begin at the existing groundline and extend a minimum of 3 feet below grade. The mesh shall lay horizontal on top of the welded wire fabric.

3.2.4.3 Placement

The welded wire fabric and small opening mesh fabric shall be connected to the wire rope with wire rope clips as indicated on the drawings. The fabrics shall be backfilled with a minimum of 3 feet of river cobbles. The fabrics shall be placed on the full length of the fence as indicated on the drawings. The fabrics draped below the groundline shall extend into the river 5 feet from the end pile.

3.2.5 Weights

Rock weights shall be attached to the fabrics as indicated on the drawings.

After the fabrics have been placed, weights shall be placed on top. A piece of welded wire fabric shall be cut, placed over the weights, and attached to the fabrics with a minimum of 5 wire rope clips. Weights shall be a minimum 30 inch diameter and shall be placed 10 feet on center. The first weight shall be placed at the riverward end of the fence.

3.2.6 Connections

Connections shall be as indicated on the drawings and shall be placed on every pile. The wire rope clips shall be installed and tightened according to the manufacturer's specifications. The wire rope clips shall be placed tight against the pile and spot welded to prevent removal by vandals.

3.2.7 End Pile Protection

Rock shall be placed around the pile that is farthest in the river channel.

Rock shall surround the pile and shall be placed as shown on the drawings. Rocks shall be placed individually, not dumped.

3.3 MODIFICATION OF EXISTING ECO-FENCE

3.3.1 General

Fence A shall be extended to 105 feet, Fences B, C, and E to 100 feet and

Fence D to 130 feet. Materials shall be added to the end of the fences, as required, to bring the existing fences up to the standard of new fences as shown on the contract drawings. Any piles that are no longer vertical shall be removed. All fabric and wire between the damaged piles shall be removed. The damaged piles shall be replaced with new piles, fabric and wire. All materials removed from the area shall be disposed of offsite and in a legal manner by the Contractor. Welded wire fabric (cattle panel) and small opening mesh shall be placed on the undamaged portion of all 5 fences. The ground shall be excavated and the materials shall be placed as shown in "SECTION C - ECO-FENCE" on sheet 3 of the contract drawings.

3.3.2 Existing Conditions

As of June 2004, the fences were in the following conditions:

Fence Label	Damaged Piles to be Removed		New Piles to Install			Pile Spacing
		HP 12X84 40 ft long	12-inch Pipe 40 ft long	12-inch Pipe 20 ft long		
A	0	1	0	0	5 ft	
B	1	4	2	4	5 ft	
C	1	4	2	2	5 ft	
D	2	4	2	6	5 ft	
E	1	4	2	2	5 ft	

3.4 ROCK GRADE CONTROL

The rock grade control structure shall be built in the approximate location and to the dimensions shown on the drawings. Exact location will be as directed by the COR. Rocks shall be placed individually, not dumped. Material excavated for placement of the rock grade control structure shall be placed on the island side of the raised portion of the structure (Section E) or hauled to and stockpiled offsite, as directed by the Contracting Officer. The excavated material shall not be placed at an elevation higher than the rock grade control structure. If hauled off site, the excavated material shall be dumped at a location directed by the Contracting Officer. The site will be within one mile, roundtrip, of the construction area.

3.4.1 Excavation Equipment

Contractor shall use a backhoe for excavation that is capable of moving a minimum of 130 cubic yards per hour.

3.5 SURVEY AS-CONSTRUCTED ROCK GRADE CONTROL

The Contractor shall perform a post construction survey of the rock grade control structure. Horizontal positions shall be referenced to the Wyoming West state plane coordinate System (NAD27). Vertical positions shall be referenced to the National Geodetic Vertical Datum adjustment of 1929 (NGVD29). The unit of measure shall be US Survey feet. Horizontal and vertical positions shall be shown to the nearest one-tenth foot.

3.5.1 Cross-Sections

Data shall be collected at the beginning of the structure and continue at 100-foot cross-section intervals. The last cross-section shall be at the end of the structure, even if the interval is less than 100 feet.

Cross-section data shall extend 50 feet from the toe of each side of the structure.

3.5.2 Profile

Centerline profile data shall be collected with spot elevations. Profile data shall be collected at the beginning of the structure and continue at 10-foot intervals. The last data point shall be at the end of the structure, even if the interval is less than 10 feet.

3.5.3 Survey Submittal

The Contractor shall provide all data collected, including field notes and ASCII files, and one digital design file (compatible with Bentley Microstation - .dgn) showing all cross-sections, the profile, and a plan view. The plan view shall show the control monuments and centerline, edge of crest, and left and right toe of the structure. All horizontal and vertical control monuments utilized, their location (Northing, Easting, and elevation), designation, and description shall be clearly defined. The notes shall contain cross-section and profile data. The design file shall contain but not be limited to the following information: survey completion date, project name, north arrow, bar scale, contract number, surveyor, and Contractor's designated approval authority.

3.6 FISH BARBS

Fish barbs shall be constructed to the lines and grades shown on the drawings. Exact locations will be as directed by the COR. Rocks shall be placed individually, not dumped.

-- End of Section --